NAME OF WORK:- Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division

First and Final Bill

Quality Control Reports

QC ABSTRACT

NAME OF WORK: "Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (200mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-08-26-43** **Date: 18-06-21**
Project Name	:	"Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"
Agency	:	B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-09/W.O/18/2021-22
Date of Receipt	:	15-06-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method. Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	16-06-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.53	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.3	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

T KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 14-07-21

Lab ID	:	CP-2021-08-26-43
Project Name	:	"Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"
Agency	:	B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-09/W.O/18/2021-22
Date of Receipt	:	15-06-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	16-06-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-08-26-43** **Date: 17-06-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig ..... Date..... BANGALORE

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K KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/07/2021

ID	:	CP-2021-08-26-43
ect Name	:	"Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"
ncy	:	B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157
tomer's Reference	:	BBMP/EE/YNK.D/EPMT-09/W.O/18/2021-22
e of Receipt	:	16-07-21
tomer ID	:	PCC for Kerb (Lake View Layout - 4th Main Road)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M15 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	21/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	PCC for Kerb	M15	14/07/2021	21/07/2021	151.27 X 151.25 X 149.98	22881	8.399	289.3	12.6	12.3
2	PCC for Kerb	M15	14/07/2021	21/07/2021	150.64 X 150.23 X 150.25	22630	8.173	277.4	12.3	
3	PCC for Kerb	M15	14/07/2021	21/07/2021	151.29 X 150.98 X 149.86	22841	8.836	275.2	12.0	

The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/07/2021

ID	:	CP-2021-08-26-43
ect Name	:	"Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"
ncy	:	B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157
tomer's Reference	:	BBMP/EE/YNK.D/EPMT-09/W.O/18/2021-22
e of Receipt	:	30-06-21
tomer ID	:	Drain Bottom Slab Concrete (2nd A Cross Road)
nple Type /Size	:	150X150X150 mm
nple grade/Age	:	M20 / 28 Days Compressive Strength
ference to BIS codes	:	IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
te of test	:	26/07/2021

L o.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	28/06/2021	26/07/2021	149.49 X 151.78 X 151.04	22690	8.030	526.5	23.2	23.1
2	Drain Bottom Slab Concrete	M20	28/06/2021	26/07/2021	151.73 X 149.72 X 151.19	22717	8.175	521.8	23.0	
3	Drain Bottom Slab Concrete	M20	28/06/2021	26/07/2021	151.48 X 151.73 X 149.31	22984	8.929	533.6	23.2	

The results obtained are satisfactory as per standard requirements.

AE-1

A.E.E

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2021-08-26-43 Date: 06/07/2021

ect Name : "Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"

ncy : B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157

tomer's Reference : BBMP/EE/YNK D/EPMT-09/W.O/18/2021-22

e of Receipt : 01-07-21

tomer ID : Drain Side Wall Concrete (Cross Road-1)

mple Type /Size : 150X150X150 mm

mple grade/Age : M20 / 7 Days Compressive Strength

ference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

te of test : 06/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/06/2021	06/07/2021	151.24 X 150.62 X 151.53	22780	8.492	418.5	18.4	18.6
2	Drain Side Wall Concrete	M20	29/06/2021	06/07/2021	151.22 X 150.30 X 150.88	22728	8.038	427.6	18.8	
3	Drain Side Wall Concrete	M20	29/06/2021	06/07/2021	149.22 X 149.24 X 151.49	22269	8.592	417.8	18.8	

The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2021-08-26-43 **Date: 29/07/2021**
ject Name	:	"Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"
ency	:	B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157
stomer's Reference	:	BBMP/EE/YNK.D/EPMT-09/W.O/18/2021-22
te of Receipt	:	03-07-21
stomer ID	:	Drain Side Wall Concrete (Cross Road-2)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
te of test	:	29/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Side Wall Concrete	M20	01/07/2021	29/07/2021	151.78 X 151.02 X 151.28	22923	8.030	527.3	23.0	23.1
2	Drain Side Wall Concrete	M20	01/07/2021	29/07/2021	149.64 X 149.92 X 149.74	22434	8.175	502.1	22.4	
3	Drain Side Wall Concrete	M20	01/07/2021	29/07/2021	149.94 X 151.68 X 149.13	22743	8.929	544.2	23.9	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2021-08-26-43 Date: 05/08/2021

ect Name : "Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"

ncy : B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157

tomer's Reference : BBMP/EE/YNK D/EPMT-09/W.O/18/2021-22

e of Receipt : 10-07-21

tomer ID : Culvert Side Wall Concrete (2nd Main Road)

mple Type /Size : 150X150X150 mm

mple grade/Age : M20 / 28 Days Compressive Strength

erence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

te of test : 05/08/2021

L No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	08/07/2021	05/08/2021	149.63 X 150.76 X 149.38	22558	8.030	521.6	23.1	22.8
2	Culvert Side Wall Concrete	M20	08/07/2021	05/08/2021	149.33 X 150.78 X 151.50	22515	8.175	496.3	22.0	
3	Culvert Side Wall Concrete	M20	08/07/2021	05/08/2021	151.64 X 150.73 X 151.77	22856	8.929	533.4	23.3	

The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-08-26-43 Date: 05/08/2021

Name : "Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"

: B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157

ıer's Reference : BBMP/EE/YNK D/EPMT-09/W.O/18/2021-22

f Receipt : 31-07-21

ner ID : Cement Concrete Pavement (Maruthinagara)

e Type /Size : 150X150X150 mm

e grade/Age : M30 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 05/08/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	29/07/2021	05/08/2021	150.46 X 150.82 X 151.85	22693	8.417	576.5	25.4	25.5
Cement Concrete Pavement	M30	29/07/2021	05/08/2021	151.31 X 149.12 X 150.19	22564	8.939	594.3	26.3	
Cement Concrete Pavement	M30	29/07/2021	05/08/2021	150.65 X 149.73 X 150.36	22557	8.840	556.2	24.7	

results obtained are satisfactory as per standard requirements.

AE-1

A.E.E

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-08-26-43 Date: 05/08/2021

: "Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"

: B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157

: BBMP/EE/YNK.D/EPMT-09/W.O/18/2021-22

: 31-07-21

: Cement Concrete Pavement ((Venkatala - 4th Cross Road))

: 150X150X150 mm

: M30 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 05/08/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	29.07.2021	05/08/2021	149.51 X 150.40 X 149.55	22486	8.417	567.0	25.2	25.3
Cement Concrete Pavement	M30	29.07.2021	05/08/2021	150.58 X 149.09 X 149.92	22450	8.939	587.6	26.2	
Cement Concrete Pavement	M30	29.07.2021	05/08/2021	149.21 X 150.49 X 149.27	22456	8.840	549.7	24.5	

: results obtained are satisfactory as per standard requirements.

A.E.E

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CIVIL Pro Sig.... Date.... BANGALORE
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

)	:	CP-2021-08-26-43 Date: 06/08/2021
:t Name	:	"Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"
:y	:	B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157
ımer's Reference	:	BBMP/EE/YNK.D/EPMT-09/W.O/18/2021-22
of Receipt	:	02-08-21
ımer ID	:	Cement Concrete Pavement (Venkatala - 2nd Main Road)
ıle Type /Size	:	150X150X150 mm
ıle grade/Age	:	M30 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
of test	:	06/08/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	30/07/2021	06/08/2021	150.49 X 149.04 X 150.23	22428	8.417	574.7	25.6	25.4
Cement Concrete Pavement	M30	30/07/2021	06/08/2021	150.64 X 149.96 X 151.85	22591	8.939	596.5	26.4	
Cement Concrete Pavement	M30	30/07/2021	06/08/2021	149.68 X 150.29 X 150.60	22495	8.840	541.8	24.1	

he results obtained are satisfactory as per standard requirements.

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Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/08/2021

: CP-2021-08-26-43

ame : "Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"

: B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157

's Reference : BBMP/EE/YNK D/EPMT-09/W.O/18/2021-22

eceipt : 02-08-21

- ID : Cement Concrete Pavement (4th Main Road)

ype /Size : 150X150X150 mm

rade/Age : M30 / 28 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

est : 28/08/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	31/07/2021	28/08/2021	150.69 X 151.83 X 150.23	22878	8.723	756.8	33.1	33.0
Cement Concrete Pavement	M30	31/07/2021	28/08/2021	151.11 X 151.56 X 149.33	22902	8.875	744.7	32.5	
Cement Concrete Pavement	M30	31/07/2021	28/08/2021	150.22 X 149.75 X 150.96	22495	8.878	752.6	33.5	

esults obtained are satisfactory as per standard requirements.

AE-1
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FOR CIVIL Pro
CIVIL Pro Sig..... Date..... BANGALORE
MURTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL| ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-08-26-43 **Date: 28/08/2021**

ame : "Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"

: B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157

r's Reference : BBMP/EE/YNK.D/EPMT-09/W.O/18/2021-22

Receipt : 02-08-21

r ID : Cement Concrete Pavement (Manjunatha House Road)

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 28/08/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	31/07/2021	28/08/2021	151.00 X 151.37 X 150.35	22857	8.723	767.5	33.6	33.2
Cement Concrete Pavement	M30	31/07/2021	28/08/2021	150.36 X 150.30 X 149.13	22600	8.875	741.0	32.8	
Cement Concrete Pavement	M30	31/07/2021	28/08/2021	151.00 X 149.90 X 149.90	22634	8.878	750.0	33.1	

Results obtained are satisfactory as per standard requirements.

A&I

A.E.E

FOR CIVIL Pro.

CIVIL Pro Sig ..... Date ..... BANGALORE

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-08-26-43 Date: 09/08/2021

: "Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"

: B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157

: BBMP/EE/YNK.D/EPMT-09/W.O/18/2021-22

: 04-08-21

: Cement Concrete Pavement (Ganesha Temple Road)

: 150X150X150 mm

: M30 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 09/08/2021

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Cement Concrete Pavement	M30	02/08/2021	09/08/2021	149.50 X 149.42 X 150.80	22337	8.417	559.0	25.0	25.4
1	Cement Concrete Pavement	M30	02/08/2021	09/08/2021	151.45 X 150.74 X 151.68	22831	8.939	597.5	26.2	
3	Cement Concrete Pavement	M30	02/08/2021	09/08/2021	149.98 X 151.12 X 150.46	22665	8.840	563.6	24.9	

The results obtained are satisfactory as per standard requirements.

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A.E.E

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CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-08-26-43 Date: 09/08/2021

Project Name : "Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"

Agency : B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157

Customer's Reference : BBMP/EE/YNK.D/EPMT-09/W.O/18/2021-22

Date of Receipt : 04-08-21

Customer ID : Cement Concrete Pavement (Uthsavamba Nilaya Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/08/2021	09/08/2021	149.18 X 149.50 X 149.00	22303	8.417	558.2	25.0	25.1
2	Cement Concrete Pavement	M30	02/08/2021	09/08/2021	150.92 X 150.46 X 150.62	22707	8.939	590.9	26.0	
3	Cement Concrete Pavement	M30	02/08/2021	09/08/2021	151.17 X 149.91 X 151.77	22662	8.840	548.9	24.2	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-08-26-43 Date: 10/08/2021

Project Name : "Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"

Agency : B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157

Customer's Reference : BBMP/EE/YNK.D/EPMT-09/W.O/18/2021-22

Date of Receipt : 05-08-21

Customer ID : Cement Concrete Pavement (2nd A Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Tolerance to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/08/2021	10/08/2021	150.02 X 151.73 X 151.45	22764	8.417	571.9	25.1	25.2
2	Cement Concrete Pavement	M30	03/08/2021	10/08/2021	150.97 X 150.54 X 149.90	22727	8.939	592.5	26.1	
3	Cement Concrete Pavement	M30	03/08/2021	10/08/2021	149.70 X 149.93 X 151.87	22445	8.840	547.3	24.4	

* The results obtained are satisfactory as per standard requirements.

AE-1
A.E.E

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Quality Manager

CIVIL Pro Sig... Date... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-08-26-43 Date: 31/08/2021

Project Name : "Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"

Agency : B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157

Customer's Reference : BBMP/EE/YNK.D/EPMT-09/W.O/18/2021-22

Date of Receipt : 05-08-21

Customer ID : Cement Concrete Pavement (Canadian School Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/08/2021	31/08/2021	151.48 X 149.89 X 151.12	22706	8.723	765.9	33.7	33.5
2	Cement Concrete Pavement	M30	03/08/2021	31/08/2021	151.33 X 151.37 X 149.12	22908	8.875	754.4	32.9	
3	Cement Concrete Pavement	M30	03/08/2021	31/08/2021	149.73 X 149.73 X 151.79	22419	8.878	757.5	33.8	

* The results obtained are satisfactory as per standard requirements.

AE-1

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CIVIL Pro BANGALORE Sig. Date

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-08-26-43 Date: 11/08/2021

Project Name : "Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"

Agency : B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157

Customer's Reference : BBMP/EE/YNK.D/EPMT-09/W.O/18/2021-22

Date of Receipt : 06-08-21

Customer ID : Cement Concrete Pavement (4th main road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/08/2021	11/08/2021	151.99 X 149.98 X 151.47	22796	8.417	571.0	25.1	25.2
2	Cement Concrete Pavement	M30	04/08/2021	11/08/2021	151.72 X 150.12 X 149.62	22777	8.939	600.2	26.4	
3	Cement Concrete Pavement	M30	04/08/2021	11/08/2021	150.57 X 150.06 X 149.93	22593	8.840	549.8	24.3	

* The results obtained are satisfactory as per standard requirements.

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A.E.E

FOR CIVIL Pro.
CIVIL Pro Sig..... Date..... BANGALORE
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-08-26-43 Date: 01/09/2021

Project Name : "Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"

Agency : B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157

Customer's Reference : BBMP/EE/YNK.D/EPMT-09/W.O/18/2021-22

Date of Receipt : 06-08-21

Customer ID : Cement Concrete Pavement (4th main road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 01/09/2021

Sl No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/08/2021	01/09/2021	151.43 X 150.15 X 151.85	22738	8.723	753.0	33.1	32.9
2	Cement Concrete Pavement	M30	04/08/2021	01/09/2021	149.36 X 151.85 X 151.44	22681	8.875	731.9	32.3	
3	Cement Concrete Pavement	M30	04/08/2021	01/09/2021	150.20 X 149.32 X 151.39	22428	8.878	750.4	33.5	

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig Date BANGALORE
KARTHIK RECHAN
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/09/2021

Lab ID : CP-2021-08-26-43

Project Name : "Development of Roads and Drains at Venkatala and Venkatala Janatha Colony in Ward No 01 of Yelahanka Sub Division"

Agency : B P Mahesh, M/s Sri Sai Manjunatha Enterprises, #58, B P Linganna Building, Chandramowleshwara Layout, Hunasamaranahalli, Bangalore 562157

Customer's Reference : BBMP/EE/YNK.D/EPMT-09/W.O/18/2021-22

Date of Receipt : 06-08-21

Customer ID : Cement Concrete Pavement (4th main road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/08/2021	01/09/2021	151.90 X 150.41 X 149.29	22848	8.723	758.7	33.2	33.1
2	Cement Concrete Pavement	M30	04/08/2021	01/09/2021	150.35 X 151.24 X 151.97	22738	8.875	737.3	32.4	
3	Cement Concrete Pavement	M30	04/08/2021	01/09/2021	150.67 X 149.92 X 150.21	22588	8.878	758.5	33.6	

* The results obtained are satisfactory as per standard requirements.

AE-1

A.E.E

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